First Named Inventor: Robert W. Lamberton Application No.: 10/686,841

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## AMENDMENTS TO THE CLAIMS

Please amend claims 1, 3, 4, 7, 8, 14, 20, and 21 and cancel claim 2, such that the status of the claims is as follows:

1. (Currently amended) A magnetic element comprising at least one layer of a nanophase magnetic material incorporating nanoclusters of a first magnetic material containing approximately 200 to 800 atoms per nanocluster surrounded by a second magnetic material, and having a magnetic saturation moment of greater than 2.4 T.

## 2. (Canceled)

- 3. (Currently amended) The magnetic element of claim 1 wherein the nanophase first magnetic material comprises nanoclusters of magnetic materials is selected from the group consisting of: Fe, Mn, Co, Ni and alloys thereof.
- 4. (Currently amended) The magnetic element of claim 3 wherein the nanoclusters are coated in flight with [[a]] second magnetic material selected from the group consisting of: Fe, Mn, Ni, Co and alloys thereof.
- 5. (Previously presented) The magnetic element of claim 3 wherein the nanoclusters are adsorbed with an electron-donating material selected from the group consisting of: hydrogen and nitrogen.
- 6. (Previously presented) The magnetic element of claim 1 wherein the nanophase magnetic material comprises a nano-laminated cluster film.
- 7. (Currently amended) The magnetic element of claim 6 wherein the nano-laminated cluster film comprises:

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at least one layer of nanoclusters of the first magnetic material with magnetic saturation moments greater than 2.4 T; and

a plurality of <u>magnetic</u> matrix layers wherein the nanocluster layers are approximately alternating with the matrix layers.

- 8. (Currently amended)The magnetic element of claim 7 wherein the <u>first</u> magnetic <u>materials are material</u> is selected from the group consisting of: Fe, Mn, Ni, Co and alloys thereof.
- 9. (Previously presented) The magnetic element of claim 7 wherein the matrix is a vacuum-deposited magnetic material.
- 10. (Previously presented) The magnetic element of claim 7 wherein the matrix is formed of a material selected from the group consisting of: Co, Fe and alloys thereof.
- 11. (Previously presented) The magnetic element of claim 7 wherein the number of nanocluster layers and matrix layers is approximately between 2 and 15.
- 12. (Previously presented) The magnetic write element of claim 1 wherein the nanophase magnetic material forms part of a write pole.
- 13. (Previously presented) The magnetic element of claim 1 wherein the nanophase magnetic material forms an SUL layer of perpendicular recording media.
- 14. (Currently amended) A magnetic write element having a write gap, the element comprising: a bottom pole;

a first magnetic layer located upon the bottom pole at the write gap, wherein the first magnetic layer includes nanophase magnetic material incorporating nanoclusters of a first magnetic material containing approximately 200 to 800 atoms per nanocluster surrounded by a second magnetic material, and having a magnetic

saturation moment of greater than 2.4 T; and

a second magnetic layer adjacent to the write gap opposite to the first magnetic layer, wherein the second magnetic layer includes nanophase magnetic material incorporating nanoclusters of a first magnetic material containing approximately 200 to 800 atoms per nanocluster surrounded by a sencond magnetic material, and having a magnetic saturation moment of greater than 2.4 T, and a third magnetic layer plated upon the second magnetic layer thereby forming a top pole.

- 15. (Previously presented) The magnetic write element of claim 14 wherein the nanophase magnetic material comprises coated magnetic nanoclusters.
- 16. (Previously presented) The magnetic write element of claim 15 wherein the coated magnetic nanoclusters comprise nanoclusters of magnetic materials selected from the group consisting of: Fe, Mn, Co, Ni and alloys thereof.
- 17. (Original) The magnetic write element of claim 16 wherein the nanoclusters are coated in flight with a magnetic material selected from the group consisting of: Fe, Mn, Ni, Co and alloys thereof.
- 18. (Original) The magnetic write element of claim 16 wherein the nanoclusters are adsorbed with an electron-donating material selected from the group consisting of: hydrogen and nitrogen.

19. (Previously presented) The magnetic write element of claim 14 wherein the nanophase magnetic materials comprises nano-laminated cluster film.

20. (Currently amended) The magnetic write element of claim 19 wherein the nano-laminated cluster film comprises:

at least one layer of nanoclusters of <u>first</u> magnetic material with magnetic saturation moments greater than 2.4 T; and

a plurality of <u>magnetic</u> matrix layers wherein the nanocluster layers are approximately alternating with the matrix layers.

- 21. (Currently amended) The magnetic write element of claim 20 wherein the <u>first</u> magnetic material[[s]] [[are]] is selected from the group consisting of: Fe, Mn, Ni, Co and alloys thereof.
- 22. (Previously presented) The magnetic write element of claim 20 wherein the matrix is a vacuum-deposited magnetic moment enhancing material.
- 23. (Previously presented) The magnetic write element of claim 20 wherein the matrix is formed of a material selected from the group consisting of: Co, Fe and alloys thereof.